

ABSTRACT OF THE DISCLOSURE

A vacuum fluorescent display (VFD) capable of reducing the absorption of electrons by a control grid to enhance the functional efficiency of electrons is disclosed. The VFD has an evacuated envelope surrounded by a face glass, a base substrate and side glasses; a plurality of filamentary cathodes for emitting electrons when a negative potential is applied; an anode having a phosphor layer that responds to electrons emitted from the cathodes, and having a positive potential applied thereto; and electron control unit for generating a repulsive electric field that allows the acceleration of electrons emitted from the cathodes in the direction of the anode. The electron control unit may be a plurality of grids behind the cathodes, or a layer of transparent conductive material deposited on the inner surface of the face glass.